

Fitzpatrick and Hobbs

16766.2

No. 4-1362-1

Date 4-13-64

~~Blackberry~~ Grover

Co. & State Cleveland Co., N.C.

Loc 4.8 mi NE Blackberry turn off ~~turn off~~ 7 i.e. S.C - N.C state line on
Interstate hwy. 85

Water Slightly Cloudy Flow Moderate

Width 4' Depth to 8" pH Temp.

Bottom Gravel, Bed Rock

Vegetation None

Shore Acer, Pinus, Liriodendron, Cercis, Ilex,

Air Temp.

Weather Clear, Windy Time 5³⁰ pm.

Capture Seine

Det. C. montanus subsp. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114091 <u>C. montanus aurantiatus</u>	1	1	1		2		

Roll 1

S.C. line 6770.6

Frame - 1 - Blank
Frame - 2 - Good. ♂I

5

No. 4-1462-1

Date 4-14-62

EASLEY

Co. & State PICKENS Co. S.C.

Loc. 1.4 mi N. Easley on state Rte 135

Water Slightly turbid, almost clear Flow 5/aggish.

Width 10-14' Depth 10" pH Temp.

Bottom Sand

Vegetation None

Shore Rubrus, Juniperus, Liriodendron, Pinus, Acer.

Air Temp.

Weather Clear, cool. Time 9⁰⁰ AM.

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114092	<i>Cambarus latimanus</i> (LeConte)	3	4	8	9	15			
114093	<i>Cambarus bartonii</i> sayi *				1	2			
							Total		42

* Head and like *Succinea* form.

6850.5

6849.4 Easley.

6853.1 jct. St. 183 - St 135. going E.

Roll #1

Frames 5 & 6. ♂II

40

No. 4-1462-2

Date 4-14-62

Easley

Co. & State Pickens Co., S.C.

Loc. 6.4 mi E. jct. St. Rte 135 & St. Rte 183 on St. Rte 183

Water Clear Flow Sluggish

Width 10' Depth 8" pH Temp.

Bottom Sandy

Vegetation Salix thicket None

Shore Salix thicket

Air Temp.

Weather Clear, cool Time

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114094	<i>Cambarus bartonii</i> subsp.		1		1	5			
114095	<i>Cambarus latimanus</i> (Leconte)				1	1			

6859.5
6853.1 jct. St. 183 - St. 135
6.4

8

Saluda

2 Bottles

No. 4-1462-3

Date 4-14-62

Greenville Farris BridgeCo. & State Green Greenville, Co., S.C.

Loc. Small road ravine about ^{1.0}~~1/2 to 3/4~~ mi east of Saluda River
 and ^{about} 0.5 mi N of state Rte 183 on surfaced side road.

Water Clear Flow SluggishWidth 1-2' Depth 3-4" pH Temp. Bottom Sand, rarely rocks.Vegetation noneShore Pinus, Liriodendron, Quercus, RubusAir Temp. Weather Sunny cool. Time 12⁰⁰ noonCapture Seine, C. carolinus dug from burrow in bankDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114096	<u>Cambarus carolinus</u> Erich.			1				
114097	<u>Cambarus bartonii</u> subsp.	1		2	11	17		
114098	<u>Cambarus bartonii</u>					2		

34

jet. 135.183 6853.1
 side road 6859.8 ^{36.4 mi}
 6861.7 -

2 striped animals taken from big creek (10-12' wide, 14" deep)

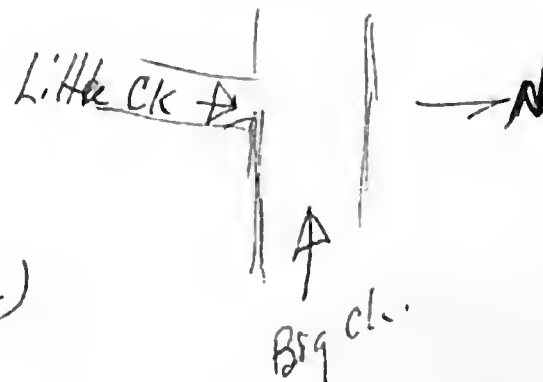
Rest from small trib. of big creek

Roll #1

Frame 3-4 C. carolinensis ♀eCarolinus is separate jar.

To get 400

31



No. 4-1462-4

Date 4-14-62

Seneca

Co. & State Oconee Co., S.C.

Loc. 1.4 mi WNW Seneca on U.S. 123

Water Sl. Turbid. Flow Moderate

Width 14' Depth 20" pH Temp.

Bottom Sand, bedrock

Vegetation none

Shore Pines, Liriodendron, Acer, Ilex, ~~Hamamelis~~

Air Temp.

Weather Sunny Time 2⁰⁰ PM

Capture Seine

Det. Coll.

114099

Cambarus bartonii subsp.

♂I	♂II	♀	♂j	♀j	♀e	♀y
			2	5		

(7)

96901.0

402.4

(6)

No. 4-1462-5

Date 4-14-62

Long Creek

Co. & State Oconee Co., S.C.

Loc. 0.6 mi NW ~~Ocon~~ Long Creek (14.1 mi NW Westminster) on

U.S. Hwy 76.

Water Sl. Turbid Flow Rapid

Width 10' Depth 20" pH Temp.

Bottom Rock, sand.

Vegetation Pinus, Acer, Prunus

Shore Pinus, Acer, Prunus

Air Temp.

Weather Sunny, warm Time 3⁰⁰pm

Capture Seine.

Det. Coll.

114100

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>Cambarus bartonii subsp.</u>		<u>1</u>	<u>1</u>	<u>10</u>	<u>11</u>		

23

23

4-1462-6

Date 4-14-62

CLAYTON

Co. & State RABUN Co., G.A.

0.6 mi N.W. GA-S.C. state line on U.S. Hwy 76

Water Clear Flow Swift

Width 2' Depth 6" pH Temp.

Bottom Rock & Bedrock

Vegetation

Shore Pinus, Quercus, Kalmia

Air Temp.

Weather Sunny, warm Time 3:30 P

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114101		1	1	1	1			Cambarus b. bartonii (Fab.)



No. 4-1462-7

Date 4-14-62

CLAYTON

Co. & State RABUN Co., GA.

Loc. 8. 5.9 mi NW GA-S.C. State Line on U.S. 76

Water clear Flow Moderate

Width 30' Depth 2-3" pH Temp.

Bottom Rock, Sand, Gravel.

Vegetation none

Shore Alnus

Air Temp.

Weather Sunny, warm. Time 4:15 pm.

Capture Hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114102 <u>Cambarus b. bartonii (Fab)</u>		5	5	2	4			

Roll #1

Frames 7 & 8 ♀

✓

16

No. 4-1462-8

Date 4-14-62.

Co. & State Roburn HABERSHAM Co., GA.

Loc. 16.6 mi. N.W. Clayton on U.S. 76

Water Clear Flow Cascading

Width 3' Depth 3" pH Temp.

Bottom Rock, gravel.

Vegetation none

Shore Liriodendron, Pinus, Acer, Quercus, Galax, Kalmia

Air Temp.

Weather Sunny Cool. Time 5¹⁵ PM

Capture Seine

Det. Coll.

114103

Cambarus b. bartonii

♂I	♂II	♀	♂j	♀j	♀e	♀y
	1	1		6		

56.7
40.1
16.6.

P

No. 4-1462-9

Date 4-14-62

Co. & State TOWNS Co., GA.

Loc. 0.6 mi N.W. Rabun-Townes Co. line on U.S. 76

Water Clear Flow Rapid

Width 4' Depth 6" pH Temp.

Bottom Rock & Sand.

Vegetation ^{none} Quercus, Rhododendron, laurel, Carya

Shore //

Air Temp.

Weather Sunny, cool Time 5⁴⁵ pm.

Capture Seine.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114104 <u>Cambarus bartonii bartonii (Fab)</u>		6	3		2		

57.8

(11)

No. 4-1462-10

Rabun

Date _____

Co. & State TOWNS Co., GA.

Loc. 4.8 mi. N.W. Rabun-Towns Co. line on U.S. 76. Trib to
Hightower
There Creek.

Water Clear. Flow Swift.

Width 20' Depth 24" pH _____ Temp. _____

Bottom Rock & gravel.

Vegetation None

Shore cleared pasture & shrubs along banks.

Air Temp. _____

Weather Sunny, partly cloudy, cool Time 6:45 PM

Capture Seine.

Det. _____ Coll. _____

114105

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>Cambarus b. bartonii Fab.</u>				1			

62.0

✓

1

No. 4-1562-1

Date 4-15-62 ^{Fannin}

BLUE RIDGE

Co. & State FANNIN^N Co., GA.

Loc. ~~63~~ 2.6 mi N of Blue Ridge on Ga. Rte 5.

Water Clear Flow Moderate

Width 8' Depth 20" pH Temp.

Bottom Sand, Gravel.

Vegetation

Shore Salix, Pinus, Acer.

Air Temp.

Weather Sunny Cool Time 10³⁰ AM.

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114106	<i>Cambarus latimanus</i> (Leconte)	1	8	9	14	15		
114107	<i>Cambarus bartonii</i> subsp.	1		1				

Roll #1
Frame 9. ♂I

No. 4-1562-2

Date 4-15-62

Epworth

Co. & State Fannin Co., Ga.

Loc. Near First Baptist Church, Epworth

Water Clear Flow Moderate

Width 2' Depth 3-4" pH Temp.

Bottom Rock, Bedrock, Gravel.

Vegetation

Shore Quercus, Acer, Liriodendron

Air Temp.

Weather Sunny, warm. Time 1:45 PM

Capture Seine

Det. Coll.

114108

Cambarus lateralis (Le Conte)

δI	δII	\varnothing	δj	$\varnothing j$	$\varnothing e$	$\varnothing y$
	1	6	7	7		
3	1			2	1	

114109

Cambarus bartoni subsp.

Simonds

Roll #1 10 "
Frames ~~9~~ ~~10~~ δI
Frame 12 $\varnothing e$

28

No. 4-1562-3Date 4-15-62MURPHYCo. & State CHEROKEE Co., N.C.Loc. 6.9 mi. E. of Tennessee - North Carolina State
line on U.S. 64.Water Clear Flow Rapid.Width 14' Depth 20 " pH Temp. Bottom Rock gravel.Vegetation Through pastureShore Through pastureAir Temp. Weather Funny, windy cool. Time 3⁰⁰ pmCapture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114110	<i>Cambarus hiwasseeensis</i>	2	1	1	1	3		
114111	<i>Cambarus bartonii</i> subsp.	9	8	1	5	7	4	
114112	<i>Cambarus carolinus</i>			1				

40.9

46.9

Roll #2:

Frames 1 & 2 ♂I } bartoni

Frame 3 ♀e

Frames 4 & 5 ♂ hiwasseeensis

Frames 6 & 7 hiwasseeensis - freshly molted.

Carolinus concolorous / ^{greenish} orange tip
chela.

42

2 Bottles

No. 4-1562-4

Date 4-15-62

MARBLE

Co. & State CHEROKEE Co., N.C.

Loc. 3.6 mi SW Marble on U.S. 19. Trib. to Valley River.

Water Clear Flow Swift.

Width 15' Depth 12-14" pH Temp.

Bottom Rock, gravel

Vegetation none

Shore Salix, Quercus, Liquidambar, Acer.

Air Temp.

Weather Sunny, cool Time

Capture Seine. & By hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114113 <u>Cambarus bartonii subsp.</u>	1	2	2		1	1		
114114 <u>Cambarus bartonii bartonii</u>			1					

Roll #2

Frames 8 & 9 ♂I

4-1562-5

Date 4-15-62

MURPHY

Co. & State CHEROKEE Co., N.C.

Loc. 0.6 mi. S. of U.S. 64 on dirt road. 17.0 mi E. of Tenn.-N.C.
State line. Caney Ck., trib. to Hiwassee River

Water Clear Flow Rapid

Width 10' Depth to 20" pH Temp.

Bottom Rock, gravel

Vegetation None

Shore Graded.

Air Temp.

Weather Sunny, cool, windy Time 6¹⁵ PM.

Capture Seine.

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114115	<i>Cambarus hiwasseeensis</i>		2	1	1			
114116	<i>Cambarus bartonii subsp.</i>	1		1				

(6)

No. 4-1562-6

Date 4-15-62

MURPHY

Co. & State CHEROKEE CO., N.C.

Loc. 1.1 mi S. of U.S. 64 on N.C. State Rte 60.

Water Clear Flow Moderate

Width 2' Depth 8" pH Temp.

Bottom Sand, gravel.

Vegetation grass

Shore Open pasture

Air Temp.

Weather Sunny, cold, windy Time 6:45 pm

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114117	<u>Cambarus hirsutus</u>	4		3	5	3		
114118	<u>Cambarus carolinus</u>				1			

Roll #2

Frame #10 immature

No. 4-1662-1Date 4-16-62MAXWELLCo. & State GILMER Co., GA.Loc. 7.3 mi SW Fannin-Gilmer Co. line on U.S. 76. Tributary
Turniptown Ck.Water Clear Flow ModerateWidth 15 Depth 10" pH Temp. Bottom Rock - gravelVegetation NoneShore Pinus, Rhododendron, PrunusAir Temp. Weather Sunny, cold Time 9⁰⁰ AMCapture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114119	<u>Cambarus conasaugaeensis</u>	1	1	5	1			
114120	<u>Cambarus extraneus Hagen</u>	1	1	1		1		

Roll #2
Frames 11 & 12; Roll #3 Frame #1 - striatus ♀Roll #3
Frame # 2 & 3 ♂ extraneus
Frame # 4 ♀ conasaugaeensis?

13

No. 4-1662-2.Date 4-16-62ELLIJAYCo. & State GILMER Co., GA.Loc. 0.6 mi NW Ellijay on U.S. 76.Water Clear Flow ModerateWidth 10' Depth 10" pH Temp. Bottom Rock & Gravel.Vegetation None.Shore Pinus, ~~Liquidambar styraciflua~~, Plantus occidentalisAir Temp. Weather Sunny, cool Time 10³⁰/Am.Capture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114121	<u>Cambarus latimanus (LeConte)</u>			3	4	11		
114122	<u>Cambarus anasanguineus H & H.</u>		3	2	1	2		

Roll #2

 Frames 11 & 12 } striatus ♀
 Roll #3
 Frame #1

28

No. 4-1662-3Date 4-16-62EllijayCo. & State Gilmer Co., GA.Loc. 8.3 mi NW Ellijay on U.S. 76. Trib. to Mountain Town Ck.Water Clear Flow ModerateWidth 5' Depth 8" pH Temp. Bottom Rock, gravel, sand.Vegetation NoneShore Salix, Pinus, RubusAir Temp. Weather Sunny, mild. Time 11¹⁵ AM.Capture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114123	<u>Cambarus laterianus (LeConte)</u>		1	4	3	8		
114124	<u>Cambarus concoloratus H & H.</u>		1		1		1	

No. 4-1662-4Date 4-16-62ELLIJAYCo. & State GILBERT Co., GA.Loc. Conasauga Creek. 9.7 mi NW Ellijay on U.S. 76.Water Clear Flow Swift.Width 30' Depth 24" pH Temp. Bottom Rock, gravelVegetation None.Shore Through cultivated field.Air Temp. Weather Sunny, mild. Time 12:15 PM.Capture Seine.Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114125	<i>Cambarus conasaugaensis</i> H&H.		3	2	1	1		
114126	<i>Cambarus extraneus</i> Hagen	2	18	17	2	3	6	

A.G. Ellis, Jr.
Route 1, Ellijay, Ga.

Roll #3

Frame #5 ♂_I *extraneus*

♀ e black eggs.

54

No. 4-1662-5

Date 4-16-62

CHATSWORTH.

Co. & State MURRAY Co., GA.

Loc. 5.8 mi NW Murray-Gilmer Co. Line on U.S. 76.

Water Clear Flow Cascading

Width 2' Depth 3-4" pH Temp.

Bottom Rock, gravel, sand

Vegetation

Shore Pinus, Liriodendron

Air Temp.

Weather Sunny, mild. Time 1³⁰ PM

Capture Seize, hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114127 <u>Cambarus connasaugensis</u>	1	1	1	2	3		

Roll #3

Frame #6 ♂I

2

No. 4-1662-6

Date 7-16-62

CHATTSWORTH

Co. & State MURRAY Co., GA.

Loc. 2 mi E. of Chatsworth, on U.S. 76

Water Clear Flow Cascading, but sluggish

Width 2' Depth 2-6" pH Temp.

Bottom Rock, sand, gravel

Vegetation None

Shore Rhus, Pines, Cornus, Liriodendron, Azalea

Air Temp.

Weather Sunny Time 2:15

Capture Sein

Det. Coll.

114128

Cambarus striatus Hay

♂I	♂II	♀	♂j	♀j	♀e	♀y
	2	1	8	6		

170.2

No. 4-1662-7Date 4-16-62CHATTSWORTHCo. & State MURRAY CO., GA.Loc. Holly Creek, Chattsworth, GA.Water Swift Clear Flow SwiftWidth 40' Depth 3' + pH Temp. Bottom Rock, Sand, gravel.Vegetation NoneShore SalixAir Temp. Weather Sunny, M. I. d. Time 3:00 PMCapture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114129	<i>Cambarus striatus</i> Hay		1	1	2				
114130	<i>Cambarus latimanus</i> (LeConte)			1					
114131	<i>Cambarus extraneus</i> Hayen				1	1			

Roll #3

Frame 7 & 8 *striatus* ♀Frame 9 *latimanus* ♀

93.6

4-1662-8

Date 4-16-62

DALTON

Co. & State WHITFIELD Co., GA.

Loc. 4.6 mi N. Dalton on U.S. 76

Water 1/2 turbid. Flow P Swift

Width 30' Depth 3' pH Temp.

Bottom Rock, gravel.

Vegetation ~~None~~ Diatomaceous scum

Shore Salix, Pinus

Air Temp.

Weather Sunny, mild. Time 4:30 PM

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114132	<i>Orconectes spinosus</i> (Bundy)	2			1	4		
114133	<i>Cambarus extraneus</i> Hagen	1	6	4	4	4		

1745

Roll #3

Frames 10 & 11 - *O. spinosus* ♀

Frame 12 } *C. longatus longirostris extraneus* -

Roll #4

Frame 1

♂I

26

12/15

No. 4-1662-9Date 4-16-62ROCKY FACECo. & State WHITFIELD Co., GA.Loc. 7.1 mi SW. jct. U.S. 76 & State Rte 201 on State Rte 201
Stream flowing E. (Chickamauga Dr.)Water Turbid. Flow SluggishWidth 6' Depth 30" + pH Temp. Bottom Small gravel, mostlyVegetation noneShore Cultivated areaAir Temp. Weather Sunny, mild Time 5¹⁵ pmCapture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114134	<u>Cambarus extraneus Hagen</u>		1	2	4	5		
114135	<u>Cambarus longulus longirostris Hy</u>		1	2		1		
114136	<u>Cambarus striatus Hy</u>					1		
114137	<u>Oreconectes erichsonianus (Hagen)</u>					1		

Roll #4

Frames 2 & 3

extraneus ♀

Frame 4 & 5

longulus longirostris ♀

(18)

No. 4-1662-10

Date 4-16-62.

VILLANOW

Co. & State WALKER Co., GA.

Loc. 3.8 mi W. ~~Villa~~ jct. St. Rte. 143 & St. Rte 201 on
St. Rte ~~201~~ 143

Water Clear Flow Moderate

Width 7' Depth 15" pH Temp.

Bottom Rock, gravel

Vegetation none

Shore Salix, Blasphemy Vines.

Air Temp.

Weather Sunny, mild. Time 6⁰⁰/PM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114138 <u>Cambarus extenuatus Hagen.</u>		2	4	7	10		
114139 <u>Cambarus latimanus (LeConte)</u>		1		1			

✓✓

4-1662-11

Date 4-16-62

LA. FAYETTE

Co. & State WALKER Co., GA.

Loc. 5.9 mi S La Fayette (Jct St. Rte 143 & U.S. 27) on U.S. 27

Water Clear Flow Swift

Width 40' Depth 24" pH Temp.

Bottom Rock gravel.

Vegetation none

Shore

Air Temp.

Weather Sunny, cool Time 6:47 PM

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114140	<i>Cambarus hastatus</i> sp. nov.	2	2	2	4	2		
114141	<i>Cambarus striatus</i> Hay		1	1	1			
114142	<i>Orconectes erichsonianus</i> (Hagen)					1		

No. 4-1762-1

Date 4-17-62

HAMONDVILLE,

Co. & State DE KALB Co., ALA.

Loc. 7.8 mi W jct. U.S. 11 & St. Rte 40 on St. Rte 40

Water Clear Flow Stagnant

Width 3' Depth 6" pH Temp.

Bottom Rock, sand

Vegetation none - slightly polluted

Shore Pinus, Quercus, Liriodendron

Air Temp.

Weather Overcast, mild Time 8:45 AM

Capture Seine

Det. Coll.

114143

Casimirus striatus Hay

♂I	♂II	♀	♂j	♀j	♀e	♀y
				4		

✓

4

No. 4-1762-2

Date 4-17-62 17-62

HENAGAR

Co. & State JACKSON Co., ALA.

Loc. 3.7 mi SW Jackson - De Kalb Co. line on State Rte 40

Water S. Turbid Flow Sluggish

Width 20' Depth 30" pH Temp.

Bottom Silt, little gravel

Vegetation ~~At~~ Vallesmaria (?)

Shore Quercus, Liriodendron

Air Temp.

Weather Overcast, windy, mild Time 10:15 AM ^{9:15 AM}

Capture Seined.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114444 <u>Comptosia striata Hay</u>		1		4	4		

label in bottle wrong? ✓

4-1762-3

Date 4-17-62

HENEGAR

Co. & State JACKSON Co., ALA.

Loc. 1.0 mi N jct. St. Rte 40 & St. Rte 71 on St. Rte 71

Water 5% Turbid Flow Stagnant

Width 2' Depth 30" pH Temp.

Bottom Bedrock, sand.

Vegetation None

Shore Rubus

Air Temp.

Weather Overcast, mild. Time ~~9:45~~ 9:15 AM

Capture Seine

Det. Coll.

114145 ? Cambarus bartonii caryi Hay

114146 Cambarus striatus Hay

♂I	♂II	♀	♂j	♀j	♀e	♀y
	1		1			
				6		

86.0
87.0
87.7
87.9

8

No. 4-1762-4

Date 4-17-62

HENAGAR

Co. & State JACKSON Co., ALA.

Loc. 2.5 mi SW Jct St. Rte 71 & State Rte 40. on state Rte 40.

Water Clear Flow Moderate

Width 40' Depth 4" pH Temp.

Bottom Rock, little sand.

Vegetation Grassy monocot

Shore Pinus, Quercus

Air Temp.

Weather Overcast, mild Time 10¹⁵ AM.

Capture Seine.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114147 ? <u>Cambarus bartonii cavatus</u> Hay		1	1				

2

No. 4-1762-5Date 4-17-62SCOTSBOROCo. & State JACKSON Co., ALALoc. Western city limits of Scotsboro. 2 mi W jct. St. Rte 31
and U.S. 72 on U.S. 72. Drainage ditch.Water Sl. Turbid. Flow ModerateWidth 2' Depth 14" pH Temp. Bottom Small gravel, sand.Vegetation AlgaeShore Open areaAir Temp. Weather Overcast Time 11:15 AMCapture SeineDet. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114148 <u><i>Procambarus</i> ^{<i>acutus</i>} <i>acutus</i> (Giesb.)</u>			2				
114149 <u><i>Cambarus striatus</i> Hey</u>				15	8		

No. 4-1762-6

Date 4-17-62

SCOTSBORO

Co. & State JACKSON Co., ALA.

Loc. 8.3 mi W Scotsboro to jct. Co. Rd. 11; & 0.6 mi N on
Co. 11 take rt. fork.

Water Slightly turbid Flow Swift.

Width 15' Depth 4' + pH Temp.

Bottom Gravel, Sand.

Vegetation None

Shore Salix, Plantus occidentalis

Air Temp.

Weather Overcast, mild. Time 11⁴⁵ pm.

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114150 <u>Cambarus striatus Hay</u>			1	2	3		

Roll # 4

Frame 6 striatus ♀ (big)

(5)

No. 4-1762-7

Date 4-17-62

SCOTTSBORO

Co. & State Jackson Co. Ala.

Loc. 8.3 mi W. Scottsboro to jct Co. 11. 4.0 mi W on Co. 11
Wet weather creek.

Water Clear Flow Sluggish

Width 6' Depth 12" pH Temp.

Bottom Rock, gravel sand.

Vegetation None little algae

Shore & Ailanthus

Air Temp.

Weather Overcast, mild. Time 12⁰⁰ Noon

Capture Hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114151 <u>Cambarus tenebrosus</u> <u>Hay</u>			1					

①

2 Bottles

No. 4-1762-8

Date 4-17-62

GURLEY

Co. & State MADISON Co., Ala.

Loc. 1.2 mi W Gurley on U.S. 72 to unnumbered surfaced road. 0.2 mi S on road. Creek flowing west.

Water sl. turbid. Flow Moderate

Width 6' Depth 18" pH Temp.

Bottom Rock, Gravel, sand.

Vegetation Ludwigia(?); Grass;

Shore Salix, Rubus

Air Temp.

Weather Partly cloudy, warm. Time 1:15 PM

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114152	<i>Orconectes validus</i> (Faxon)		8	11	9	11			
114153	<i>Cambarus striatus</i> Harg.		1	1	6	10			
114154	<i>Procambarus a. acutus</i> (Girard)					1			

Roll #4
Frames 7 & 8 O. sp. (validus?) 201 ~~18~~

No. 4-1762-9Date 4-17-62ATHENSCo. & State LIMESTONE CO., ALA.Loc. 3.6 mi W. Athens on U.S. 72.Water Clear Flow ModerateWidth 6' Depth 8" pH Temp. Bottom Rock, gravel BedrockVegetation NoneShore Open pastureAir Temp. Weather Partly cloudy Time 5:45 PMCapture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114155-Jar 1								
114156-Jar 2	<i>Orconectes validus</i> <i>sp. nov.</i>	29	1	2	3	3	8	
114157	<i>Orconectes compressus</i>	2	6	7			1	3
114158	<i>Cambarus striatus</i> Hay				2	1		

Preversus type locality

2 bottles

Roll # 4

Frames 9, 10, 11 *O. rusticus* foreps 20¹I (2 color phases.)Frame 12 *O. compressus*. ♀, ♂I, ♀y.

Jar # 2 - 1707 I
 Jar # 1 - all others

No. 4-1762-10

Date 4-17-62

ATHENS

Co. & State LIMESTONE Co., ALA.

Loc. 4.9 mi W. Athens on U.S. 72.

Water Sl. Turbid Flow Sluggish.

Width 4' Depth 30" pH Temp.

Bottom Gravel, sand, bedrock

Vegetation None

Shore Salix, Platanus, Liquidambar.

Air Temp.

Weather Partly cloudy Time 6:45 PM

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114158	<i>Cambarus striatus</i> Hay		1	1	2				
114160	<i>Orconectes</i> sp. (near <i>validus</i>)		2						

1000

2 Bottles

No. 4-1862-1

Date 4-18-62

ATHENS

Co. & State LIMESTONE Co., ALA.

Loc. 4.9 mi W. Athens on U.S. 72

Water 51. Turbid. Flow Sluggish

Width 8 10' Depth 36" pH Temp.

Bottom Bedrock, gravel, sand.

Vegetation Batrachospermum & monoct (grass-like)

Shore Salix, Liquidambar

Air Temp.

Weather Partly cloudy, warm Time 9³⁰ AM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
Jan 2 114161 <u>Cambarus striatus</u> Hay		2	1	10	13		
114162 <u>Orconectes validus</u> (Faxon)		22	12	4	6		
Jan 1 114163 <u>Cambarus fodiens</u> (Hill) (?)	4	1	6				
114164 <u>Orconectes</u> sp. nov.	1						

- 1 forceps under rock
- 1. striatus under rock
- rest in vegetation & under banks

Roll # 5

Frame 2 dor. & lat view ♂II preversus

Frame 3 dor ♂ fodiens (?)

No. 4-1862-2

Date 4-18-62

ROGERSVILLE

Co. & State LAUDERDALE Co ALA

Loc. 0.6 mi W of Lauderdale - Limestone Co. line (Elk River) on U.S. 72. Creek flows into Elk River.

Water Sl. Turbid. Flow Sluggish

Width 7' Depth 26" pH Temp.

Bottom Bedrock, Rock, gravel.

Vegetation

Shore Pinus, Salix, Liquidambar.

Air Temp.

Weather Partly cloudy, warm Time 10³⁰ AM

Capture Hand

Det. Coll.

114165

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>Cambarus striatus Harg</u>	<u>1</u>		<u>2</u>				

No. 4-1862-3Date 4-18-62 4-18-62ROGERSVILLECo. & State LAUDERDALE Co., Ala.Loc. 1.5 mi N jct. Ala 207 & U.S. 72 on St. Rte 207. ^{2.0} ~~1.0~~mi W on unnumbered surfaced road. TRIB. TO FIRST CREEK.Upper portion of creek wet weather only. Lower portion ^{spring fed.} ~~trib 1st ch.~~Water Clear Flow SluggishWidth 40' Depth 6" pH Temp. Bottom lots of Bedrock rock, gravelVegetation NoneShore Open areaAir Temp. Weather Partly cloudy, warm Time 12⁰⁰ NoonCapture HandDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114166	<i>Cambarus striatus</i> Hay		1	2				
114167	<i>Cambarus longulus longirostris</i> Hay	1						
114168	<i>Cambarus tenebrosus</i> Hay	1	1	2		1		
114169	<i>Oconester juvenilis</i> (Hayes)?	4	3	3	1		2	

tenebrosus in wet weather portion

Owner Reports white crawfish comes out of springs.

Roll # 5

Frame # 4 ♂I C. sp (longulus-like) warty woolly-finger pink blush on cheek.

Frame # 5 ♀ tenebrosus

Frame # 6 ♂I juvenilis

~~Wrong label~~

2/Boyle

No. 4-1862-4

Date 4-18-62

ROGERSVILLE

Co. & State LAUDERDALE Co. ALA

Loc. FIRST CREEK. 2.8 mi N. jct. St. Rte 207 & U.S. 72 on
State Rte. 207. 1.1 mi W on dirt. road.

Water Clear Flow Moderate

Width 40' Depth 30" pH Temp.

Bottom Rock, Gravel, Bedrock

Vegetation None

Shore ~~Salix~~ Salix, Liquidambar

Air Temp.

Weather Sunny, warm Time 1:00 PM

Capture Seine

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114170	Jar #1							
114171-#2	Orconectes juvenilis (Haxn)	10	2		1		3	
114172	Orconectes compressus (Jaxon)	1						
114173	Cambarus longulus longirostris Jaxon	3	1	1	2	3	2	

2 jacs. rate spines on rostr. of juvenile

Roll # ~~6~~ #5

Frame 7 juvenilis ♂I

2 jars.

Jar 1 - 3 ♂I, 1 ♂II, 2 ♀ eggs.

2 - 7 ♂I, 10 ♂II, 1 ♀ egg, 1 jar

No. 4-1862-5Date 4-18-62.ELGINCo. & State LAUDERDALE, ALA.Loc. 7.8 mi N. jct. State Rte 101 & U.S. 72 on St. Rte. 101.Just S of Lexington, Ala City limits.Water Sl. Turbid. Flow ModerateWidth 12' Depth 36" ± pH Temp. Bottom Sand, gravel, rock.Vegetation NoneShore SalixAir Temp. Weather Partly cloudy, warm. Time 2⁴⁴PMCapture Hand, SeineDet. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114174 <u>Cambarus striatus</u> Hay			1				
114175 <u>Orconectes juvenilis</u> (Hazen)						1	
114176 <u>Orconectes compressus</u> (Zorn)						1	1
114177 <u>Cambarus longulus longirostris</u> Zorn?			1		1		

note spines on rostrum of juvenile

32.5
24.7
7.8

(6)

No. 4-1862-6Date 4-1862Minor HillCo. & State GILES Co., TENNLoc. 1.0 mi NE Tenn. - Ala State line on State Rte 11.Trib to Sugar Creek (Elk drainage)Water Clear Flow ModerateWidth 12' Depth 6" pH Temp. Bottom Gravel Scattered rockVegetation NoneShore Open AreaAir Temp. Weather Partly cloudy, warm Time 3 1/2 PMCapture Seine, handDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114178	<i>Orconectes rusticus mirus</i> (Ortmann)	2		1		1		
114179	<i>Cambarus sp.</i> (near <i>longistria</i>)	4	1	1		4		
114180	<i>Cambarus</i> sp. (near <i>striatus</i>)				1	1		

longulus-like animal concolorous tan

Roll #5

Frame 8 - *rusticus mirus* ♂I dorsal
♀ lateral

C. albadactylus albadigitus ♂I dor
♀ lat
The smaller animals had
white fingers!!

No. 4-1862-7

Date 4-18-62

MINOR HILL

Co. & State GILES Co., TENN

Loc. 2.4 mi NE Minor Hill on State Rte. 11 (Elk Drainage)

Water Clear Flow Moderate

Width 20 Depth 4' + pH Temp.

Bottom Rock, gravel, blue clay

Vegetation None

Shore Salix, Liquidambar

Air Temp.

Weather Sunny, warm Time 4:00 PM

Capture Hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114181 <i>Orconectes rusticus</i> <i>virius</i> (Ortmann)	4	2				2	

✓

8

No. 4-1862-8

Date 4-18-62

GOODSPRING

Co. & State GILES Co., TENN

Loc. 7.5 mi N.E. Minor Hill on ~~the~~ State Rte 11.

Water Clear Flow Moderate

Width _____ Depth _____ pH _____ Temp. _____

Bottom Gravel, few rocks

Vegetation None

Shore Liquidambar

Air Temp. _____

Weather Sunny, warm Time 4:30 PM

Capture Seine

Det. _____ Coll. _____

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114182	<i>Cambarus striatus</i> Hey		1		6	7			14
114183	<i>Oreconectes rusticus mirus</i> (Oshin)	39	35	36	9	16	7	1	144
114184	<i>Oreconectes</i> " " (Albinistic)		1						157

rusticus mirus albino in separate bottle

Roll #5

Frame # 1 - *r. mirus*? ♂II albinistic.

157

No. 4-1862-9

Date 4-18-62

PULASKI.

Co. & State GILES Co., TENN

Loc. 5.1 mi E Pulaski (jct. State Rte 11 & U.S. 64) on U.S.
64. (Elk Drainage)

Water Clear Flow Mod

Width 20' Depth 6" pH Temp.

Bottom Rock, Bedrock, gravel.

Vegetation Liquidambar, Salix, Platanus

Shore Liquidambar, Salix, Platanus

Air Temp.

Weather Sunny, warm Time 5 ¹⁵ pm

Capture Net

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114185	<i>Cambarus striatus</i> Hay		2	4	3	2			
114186	<i>Orconectes rusticus</i> Nixon (Artmann)	5	1			2	1		

No. 4-1862-10Date 4-18-62MC BURGCo. & State LINCOLN CO, TENNLoc 1.7 mi W Lincoln-Giles County line on U.S. 64.Water Turbid Flow ModerateWidth 6' Depth 6" pH Temp. Bottom Rock, gravelVegetation Shore Salix, ^{Prunus} Ilex, running along roadAir Temp. Weather Sunny, warm. Time 6⁰⁰ PMCapture Hand, SeineDet. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114187 <u>Oreonestes rusticus mirus (Arbman)</u>	8	2	2		1	3	
114188 <u>Oreonestes sp. (m. propinquus)</u>	1	1				1	
114189 <u>Cambarus striatus Hay</u>		1	1		1		

No. 4-1962-1Date ~~4-1962~~ 4-1962MANCHESTERCo. & State COFFEE CO., TENNLoc. 7.6 mi NE. Manchester (Jct. St. Rte 55 - U.S. 41) onSt. Rte 55, 0.2 mi S on unnumbered surface road.Hickory Creek? [Duck Drainage]Water 3 St. Turbid Flow SluggishWidth 15' Depth 3' pH Temp. Bottom Vegetation Quercus, Prunus, Juniperus NoneShore Quercus, Prunus, JuniperusAir Temp. Weather Sunny, warm Time 8⁴⁵ AMCapture Hand, seineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114190	<i>Orconectes placidus</i> (Hagen)	2			1	1	1		
114191	<i>Cambarus</i> sp. (near <i>striatus</i>)			1					

6

No. 4-1962-2
MC MINVILLE

Date 4-19-62
Co. & State Warren
COFFEE CO. TENN

Loc. MUD CREEK. 7.7 mi NE MC Minville on U.S. 70 S

Water Turbid Flow Sluggish

Width 8' Depth 3' pH Temp.

Bottom Rock, sand, gravel

Vegetation none

Shore Liquidambar, Acer

Air Temp.

Weather Sunny, warm Time 10¹⁵ AM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114192 <u>Cambarus sp. nov.</u>		3		2			

Saddle marking.



2 bottles

No. ⁶² 4-1926-3

Date 4-19-62

PLEASANT HILL

Co. & State CUMBERLAND CO., TENN.

Loc. 3.9 mi E. White-Cumberland County line on U.S. 70 S.
0.1 mi S on unnumbered gravel road. White Oak Creek
which flows into Caney Fork.

Water Clear Flow Moderate

Width 10-15' Depth 8-10" pH Temp. rock

Bottom Rock, bedrock, gravel - Some silt in pools, mostly thin, flat

Vegetation none Some algal growth on rocks in riffles

Shore Kalmia (lots). Acer, Quercus (lots)

Air Temp.

Weather Sunny, windy, mild. Time 1:00 PM

Capture Hand.

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114193 Jun								
114194	Cambarus pristinus Hobbs	9		7	1		4	
114195	Cambarus sp. (near distans)	3	2	6	4	9		
114196	Cambarus sphenoides Hobbs			5	1			

2 bottles

Roll #5

Frame 9 dor. ♀ lat. ♂_I primaevius

Frame 10 dor. ♂_I C. sp. (near distans) [tied c string]

No. 4-1962-4
4-1926-4

Date 4-19-62

PLEASANT HILL

Co. & State CUMBERLAND Co., TENN

Loc. 6.5 mi E. White - Cumberland Co. line on U.S. 70 S.

CANEY FORK

Water Clear Flow Moderate

Width 40' Depth 10" pH Temp.

Bottom Rocks (few) extensive sand bars

Vegetation Moss, Monocot
Tsuga, Quercus, Juniperus, Rhododendron

Shore Tsuga, Quercus, Juniperus, Rhododendron

Air Temp.

Weather Sunny, wind, mild Time 2:00 PM.

Capture Hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114197 ^{Prism} <i>Cambarus pristinus</i>	1			1	1	3	
114198 ^{m. str. a} <i>Cambarus sphenoides</i>		2	1	1			

bartonii-like animal striped

No. 4-1962-5

Date 4-1962

CROSSVILLE

Co. & State CUMBERLAND Co., TENN.

Loc. DADDY CREEK. 8.2 mi S. jct. U.S. 70 & U.S. 127 on U.S. 127.

Water Sl. Turbid. Flow Moderate

Width 30' Depth 4' + pH Temp.

Bottom Lots of big rocks

Vegetation ~~Quercus, Pinus~~ Algae on Rock

Shore Quercus, Pinus, Kalmia

Air Temp.

Weather Sunny, windy, warm. Time 3:00 pm.

Capture Seine

Det. Coll.

114199 Cambarus parvoculus ^{Hobbs} ~~Sharp~~

114200 Cambarus sp. (m. distans)

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114199 <u>Cambarus parvoculus</u> ^{Hobbs} Sharp						1	
114200 <u>Cambarus sp. (m. distans)</u>				1		1	

long slender rostrum

3

4-1962-6

Date 4-19-62

CROSSVILLE

Co. & State CUMBERLAND Co., TENN.

Loc. SCOTT'S CREEK. 7.0 mi N. of Crossville on U.S. 127.

TRIB TO OBED RIVER

Water Sl. Turbid Flow Moderate

Width 8' Depth 8" pH Temp.

Bottom Rock, gravel

Vegetation None

Shore Quercus, Kalmia, Pinus

Air Temp.

Weather Sunny, windy, mild Time 4:17 PM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114201 <i>Cambarus distans</i> Rhoads	1						
114202 <i>Cambarus spilioides</i>			2				
114203 <i>Cambarus crinipes</i>	2	3	3	1	4		

Roll #5

Frame 11 - ♂I long-rostrum bartonii [dor]

Frame 12 - ♂I short-rostrum bartonii [dor]

Roll #6

Frame 1 ♂I short-rostrum bartonii [vent]

(16)

No. 4-1962-7

Date 4-19-62

CROSSVILLE

Co. & State CUMBERLAND CO, TENN

Loc. 11.2 mi N Crossville (jct. U.S. 70 & U.S. 127 on U.S. 127.

Water Sl. Turbid. Flow Moderate

Width 10' Depth _____ pH _____ Temp. _____

Bottom Rock, gravel.

Vegetation None

Shore Quercus, Pinus

Air Temp. _____

Weather Sunny, windy mild Time 4:45 PM.

Capture Seine.

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114204 <u>Cambarus spheroides</u>	1		2				

Roll #6

Frame #2 ♂I dorsal. C. sp. (near striatus)

3

No. 4-1962-8

Date 4-1962

TENN

CLARK RANGE

Co. & State CUMBERLAND-FENTRESS CO.

Loc. CLEAR CREEK. CUMBERLAND-FENTRESS COUNTY LINE
ON U.S. 127 (EMORY DRAINAGE)

Water Clear Flow Moderate

Width 40-50' Depth 24" pH Temp.

Bottom Bed rock, many large rocks, sand, gravel.

Vegetation None

Shore Quercus, lots of Pinus

Air Temp.

Weather Sunny, windy, cool. Time 5³⁰ PM

Capture Hand

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114205 <i>Cambarus sp (m. crispipes)</i>		2	1	2		1	

6

2 Bottles

No. 4-2062-1

Date 4-20-63

JAMESTOWN

Co. & State FENTRESS CO, TENN

Loc. 5.7 mi W jct. U.S. 127 & St. Rte 52 on St. Rte 52.

0.3 mi N on unnumbered surfaced road. CRAB CREEK

Water Sl. Turbid. Flow Moderate

Width 30' Depth 24" pH Temp.

Bottom Bed rock, many large rocks, gravel, sand

Vegetation None

Shore Ilex, Pinus, Quercus, Juniperus, Plantus, Tsuga

Kalmia Air Temp.

Weather Sunny, windy, mild Time 10⁰⁰ AM

Capture Hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114206 <u>Orconectes placidus</u> (?) (Hagen)					1	4	
114207 <u>Cambarus extraneus</u> Hagen	1	2	4		2		
114208 <u>Cambarus rusticiformis</u> Rhoades			4		1		
114209 <u>Cambarus tenebrosus</u> Hay	1	1	2				

Roll # 6

Frame 3 - O. rusticus placidus ♀e

Frame 4 - C. extraneus ♀

2 bottles.

23

No. 4-2062-2

Date 4-2062-4-20-62

ARMATHWAITE

Co. & State FENTRESS Co., TENN

Loc. 12.0 mi E. jct. U.S. 127 - State Rte 52 on State
route 52. Trib. to Clear Fork, to Cumberland River

Water & 5% Turbid. Flow Cascading

Width 10' Depth 10" pH Temp.

Bottom large rocks, bedrock, gravel

Vegetation Algae on rocks

Shore Tsuga, Rhododendron, Wild ginger, Wintergreen

Air Temp.

Weather Sunny, warm Time 11³⁰ AM

Capture Hand

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114211 <i>Cambarus sp. incrinipes</i>	1	4	8	4	1		

two rows of tubercles on palm.

18

No. 4-2062-3

Date 4-20-62

HUNTSVILLE

Co. & State SCOTT CO., TENN.

Loc. 2.6 mi E Huntsville on State Rte 63. Trib. to

Buffalo Ck. (South Fork Dr.)

Water Slightly turbid Flow Cascading

Width 8" Depth 10" pH Temp.

Bottom Rock

Vegetation None

Shore Liriodendron - cut-over area

Air Temp.

Weather Sunny, warm Time 1:30 PM

Capture Hand

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114212 <u>Cambarus distans Rhoades</u>	2	2	3	1	2	2	

Roll #6

Frame C. bartonii subsp. ♂_I 1 row tubercles.

12

No. 4-2062-4Date 4-20-62HUNTSVILLECo. & State SCOTT Co., TENNLoc. 0.9 mi E. Huntsville on St. Rte 63 Trip to
Straight Fork. (South Fork Dr.)Water Sl. turbid. Flow ModerateWidth 8' Depth 6" pH Temp. Bottom Rock, sand, gravelVegetation NoneShore Pinus, Acer, Rhododendron, IlexAir Temp. Weather Sunny Warm. Time 2:15 pm.Capture HandDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114213	<i>Cambarus distans</i> Rhoades	1	4	3	5	4	3		
114214	<i>Cambarus carolinus</i> Eichron					1			

C. carolinus ♀ dug from burrow in bank.
Color bluish & red-tipped claws.

No. 4-2062-3Date 4-20-62BuckeyeCo. & State CAMPBELL Co., TENNLoc. 10.9 mi E. Huntsville; 1.4 mi. E Scott-Campbell Co
line on ~~US~~ St. Rte. 63. ~~Cove~~ Trib. Cove Ck.(Tennessee Dr. System)Water Sl. Turbid. Flow SluggishWidth 6' Depth 4" pH Temp. Bottom Rock, sand, gravel.Vegetation NoneShore Amygdalia, Acer, LiriodendronAir Temp. Weather Sunny, warm Time 2⁴⁵ PM.Capture Hand.Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114215 <i>Cambarus extraneus</i>	1							
114216 <i>Cambarus</i> sp (n. distinct)	1	1	4	3	3			

No. 4-2062-6

Date 4-20-62

BUCKEYE

Co. & State CAMPBELL CO. TENN

Loc. 5.0 mi E. Scott-Campbell Co line on State Rte

63. (Tenn Dr. - ~~Clinton Dr.?~~) Cove Creek.

Water Turbid. Flow Moderate

Width 30' Depth 3' pH Temp.

Bottom large rocks, sand gravel

Vegetation None

Shore Pinus, Tsuga, Rhododendron

Air Temp.

Weather Sunny, warm Time 3³⁰ PM

Capture Hand

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114217 <i>Cambarus</i> sp (m. distans)			1			1		

4
2062-7

Date 4-20-62

BUCKEYE

Co. & State CAMPBELL CO., TENN.

Loc. 5.6 mi E Scott Campbell Co. line on St. Rte. 63.
(~~Clinton Dr.?~~) COVE CREEK.

Water Sl. Turbid Flow Rap. ds

Width 40' Depth 3' pH Temp.

Bottom Large Rocks, bedrock, gravel.

Vegetation

Shore Quercus, Alnus, Betula, Liriodendron

Air Temp.

Weather Sunny, warm. Time 3:45 pm.

Capture Ha. Seine

Det. Coll.

114218 Cambarus sp. (m. distance)

♂I	♂II	♀	♂j	♀j	♀e	♀y
					1	

1

No. ⁷⁹⁶² 4-20-62-8

Date 4-20-62

LA FOLLETTE

Co. & State CAMPBELL Co, TENN

Loc. IN LA FOLLETTE, 1.4 mi N.E. jct. U.S. 25W & St. Rte 63 on St. Rte. 63 Trib. to Cove Lake

Water Turbid. Flow Sluggish

Width 5' Depth 3' pH Temp.

Bottom Sand, few rocks.

Vegetation None

Shore Rubus. In cultivated valley

Air Temp.

Weather Sunny, warm Time 4:45 pm.

Capture Seine, hand.

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114219 <u>Orconectes rusticus subsp.</u>	3	8	5	6	5		
114220 <u>Cambarus bartonii cavatus Hay</u>			1				
114221 <u>Cambarus longulus subsp.</u>	1		1				
114221 <u></u>							

One ♀e in true burrow under rocks & r. forceps. ✓✓

Roll # 6

Frame # 6 O. rusticus forceps (?) ♀

concave rostrum (laterally)
gnathopod with shoulder

No. 4-2062-9

Date 4-20-62

LA FOLLETTE

Co. & State CLAIBORNE CO., TENN.

Loc. KAYWOOD BRANCH. 3.2 mi E. Campbell - Claiborne Co.
line on State Route 63. Creek just S of hwy. Trib to
Clinch River

Water Sl. Turbid Flow Moderate

Width 20' Depth 8" pH Temp.

Bottom Rock, sand, gravel

Vegetation None

Shore Cultivated area

Air Temp.

Weather Sunny, mild. Time 5³⁰/pm.

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114222 <i>Cambarus longulus longirostris</i> Saxon	2		1	2	1			

Roll #6

Frame #7 C. longulus longirostris dor. ♂I

Frame #8 " " lat. ♂I

2 Bottles

No. 4-2162-1

Date 4-21-62

PINEVILLE

Co. & State BELL CO. KY

Loc. LITTLE TURKEY CREEK. 2.4 mi NW Pineville
on U.S. 25 E. 0.3 mi. SE on unnumbered dirt road.
(Trib to Camb. Riv.)

Water Sl Turbid Flow Sluggish

Width 15' Depth 24" pH Temp.

Bottom Rock, sand, gravel

Vegetation None

Shore Acer, ^{Shad bush} ~~Amelanchier~~, Liriodendron, Prunus

Air Temp.

Weather Sunny, warm Time 10 AM

Capture Seine, hand

Det. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y
114223	<i>Oreocetes juvenilis</i>	6				2	4	
114224	<i>Cambarus extraneus</i>	1		3	2			
114225	<i>Cambarus</i> sp. (near <i>crinipes</i>)		3	3	11	12		

2 bottles.

two rows of tub but similar to distan

Race # 6

Frame # 10

♂I, ♀e. *O. juvenilis*

Race # 7

Frame # 3

♂I *C. extraneus*

7830.3

7830.5

No. 4-2162-2

Date 4-21-62

PINEVILLE

Co. & State BELL Co., KY

Loc. 8.4 mi NE. jct. U.S. 25 E and U.S. 119 on
U.S. 119. 200' above confluence of Cumberland Riv.

Water Turbid Flow Moderate

Width 10' Depth 6" pH Temp.

Bottom Rock, sand, gravel.

Vegetation None

Shore Pinus, Juniperus, Plantus, River birch

Air Temp.

Weather Sunny, warm Time 11 AM

Capture Hand!

Det. Coll.

114226 ? *Cambarus caryocatus* Hayen

δ I	δ II	\varnothing	δ j	\varnothing j	\varnothing e	\varnothing y
				1		

①

Loc. 4-2162-3

Date 4-21-62

PINEVILLE

Co. & State BELL Co., KY

Loc. 11.0 m. NE jct. U.S. 25 E & U.S. 119 on U.S. 119

Water _____ Flow _____

Width _____ Depth _____ pH _____ Temp. _____

Bottom _____

Vegetation _____

Shore Cultivated area near small spring

Air Temp. _____

Weather Sunny warm Time 12⁰⁰ Noon

Capture Dug from burrow

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114227 <u>Cambarus carolinus</u> Eich	1		1	2	1			

RYMER'S GROCERY

Picture Roll # 6

Frame # 9 C. carolinus ♂I

846.4
847.6

(5)

No. 4-2162-4Date 4-21-62PINEVILLE, SCo. & State BELL CO KYLoc. 9.7 mi NE jct U.S. 25 E & 4 S, 119 on U.S. 119.3.5 mi E on unnumbered surface road. (2.8past crossing at Cumberland River) Trib to Branch Cr.Water Clear Flow ModerateWidth 3' Depth 3' pH Temp. Bottom Rock, gravelVegetation NoneShore Cultivated area.Air Temp. Weather Sunny, warm Time 12³⁰pmCapture SeineDet. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114228 <i>Cambarus distans</i>	2	2	2	8	10		

Note

Two species may be mixed in this coll. ✓

No. H-2162-5Date 4-21-62JayvilleCo. & State Chickamauga Co., Tenn.Loc. 2.3 mi SE Powell River on U.S. 25E 0.2
NW on unnumbered surface road. Trib to Powell
Riv.Water Sl. Turbid Flow ModerateWidth 8' Depth 30" pH Temp. Bottom Bedrock, Rock gravel, sandVegetation NoneShore Quercus, Acer, Salix, TsugaAir Temp. Weather Sunny warm Time 2:45 PMCapture SeineDet. Coll.

		♂I	♂II	♀	♂j	♀j	♀e	♀y	
114229	<i>C. bartonii cavatus</i> Hay	2	1	2	4	7	1		
114230	<i>Cambarus parvoculus</i> Hobbs & Shoup						1		

Roll # 6Frame # 11 *C. extraneus* (?) 10th I

3 Bottles

No. 4-2162-6
Sneedville

Date 4-21-62
 Co. & State Hancock Co, Tenn
~~Jaysonville Co, Tenn~~

Loc. LITTLE SYCAMORE CREEK. 5.0 mi. NE
at Claiborne - Hancock Co line - on Rt 33.

Water St. Turbid Flow Moderate

Width _____ Depth _____ pH _____ Temp. _____

Bottom Rock, sand, gravel

Vegetation _____

Shore Pinus, Juniperus, Acer, Plantus, Quercus

Air Temp. _____

Weather Sunny Time 4:15 pm

Capture Hand seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114231 <u>Jan #1</u>							
114232 <u>Cambarus bartonii cavatus Hay</u>	2	2	5	2	1	5	
114233 <u>Cambarus longus longirostris Faxon</u>	3	3	3	2	1	2	
114234 <u>Orconectes rusticus foveus Faxon</u>	1				1	1	

3 bottles

F_{3.2} >

2 jars

① 2♂II, 2j♂, 1j♀, 5♀eggs

② 2♂II, 5♀

Roll # 6

Frame #12 O.r. foveus 10♂I

34

No. 4-2162-7Date 4-21-62SAFFORDVILLECo. & State HANCOCK Co, TENNLoc. 3.4 mi NE Claiborne Hancock Co. line on St. Rte 33,
Clinch Riv. trib.Water Sl. Turbid Flow Moderate

Width _____ Depth _____ pH _____ Temp. _____

Bottom Bed rock, sand, gravelVegetation NoneShore Pasture

Air Temp. _____

Weather Sunny, warm Time 500 PMCapture Seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114235 <i>Orconectes juvenilis</i> (Hagen)	12	3	3			7	
114236 <i>Cambarus bartonii cavatus</i> Hays	1	2	1	1	3		

Roll # 7

Frame # 1 - *O. r. percyi* ♂I, ♀e.Frame # 2 *C. bartonii* ♂I

2 Bottle

No. 4-2162-8

Date 4-21-62

SNEEDVILLE

Co. & State HANCOCK Co., TENN

Loc. 4.1 mi NE Sneedville on St. Rte 33

Water Sl. Turbid Flow Sluggish

Width 10' Depth 30" pH Temp.

Bottom Sand, gravel, few rocks

Vegetation None

Shore Open pasture

Air Temp.

Weather Sunny, warm Time 5:15 PM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114237 <u>Cambarus carolinus</u> <u>Erich.</u>				1	1			
114238 <u>-Cambarus longulus longirostris</u> <u>Japn</u>	3	1		1				
114239 <u>Cambarus bartonii caratus</u> <u>Haug</u>			1					
114240 <u>Orconectes juvenilis</u> <u>(Hagen)</u>	15	6	5	5	3	1		

2 C. carolinus dug from burrows.

4-2162-9

Date 4-21-62

KYLES FORD

Co. & State HANCOCK Co., TENN

Loc. 0.6 mi S. Kyles Ford on St. Rte 70. Trib
to Clinch Riv.

Water 5%. Turbid (Polluted?) Flow Swift

Width 6' Depth 8" pH Temp.

Bottom lge rocks, sand, gravel

Vegetation Algae on rocks

Shore Cercis, Prunus, Acer Liriodendron, Platanus

Air Temp.

Weather Sunny, warm. Time 6:15 PM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
114241 Cambarus bartonii cavatus Hay	1	1	2	2			

6

No. 4-2162-10

Date 4-21-62

Kyles Ford

Co. & State HAWKINS Co., TENN

Loc. 0.8 mi S. Hancock - Hawkins Co line on St.
Rte 70. Trib Clinch Riv.

Water St. Turbid Flow Moderated

Width 10' Depth 10" pH Temp.

Bottom Sand, gravel

Vegetation none

Shore Plantus, Acer, Liriodendron

Air Temp.

Weather Sunny, warm Time 6:30 PM

Capture Seine

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
114242 <i>Cambarus bartonii cavatus</i> Hay	2	1	1	1		1		

6

Fitzpatrick & Hobb

MILEAGE OF FIELD TRIP 13 April, 1962 - 22 April, 1962.

Mileage	Location
6766.2	4-1362-1, Grover, Cleveland Co., N. C.
6770.6	So. Carolina - No. Carolina State line
6849.1	Easley, S. C., go N on St. Rte. 135.
6850.5	4-1462-1, Easley, Pickens Co., S. C.
6853.1	Jct. St. Rte. 135 - St. Rte. 183, go E on Rte. 183
6859.5	4-1462-3, Easley, Pickens Co., S. C.
- - -	Go N on unnumbered surfaced road.
- - -	4-1462-3, Falls Bridge, Greenville Co., S. C.
6901.0	4-1462-4, Seneca, Oconee Co., S. C.
6902.4	Seneca, S. C.
6908.2	Richlands, S. C.
6913.3	Westminster, jct. U. S. 123 and U. S. 76, go NW on 76.
6926.8	Long Creek, S. C.
6927.4	4-1462-5, Long Creek, Oconee Co., S. C.
6931.4	Ga.- S. C. State line, enter Ga.
6932.0	4-1462-6, Clayton, Rabun Co., Ga.
6937.3	4-1462-7, Clayton, Rabun Co., Ga.
6940.1	Clayton, Ga.
6956.7	4-1462-8, Habersham Co.(?), Ga.
6957.2	Towns Co., line
6957.8	4-1462-9, Towns Co., Ga.
6962.0	4-1462-10
6968.2	Hiwassee, Ga.
6987.3	Blairsville, Ga.
6999.0	Union-Fannin Co. line, enter Fannin Co.
7007.4	Forganton, Ga.
7014.3	Blue Ridge Ga., go NW on St. Rte. 5.
7016.9	4-1562-1, Blue Ridge, Fannin Co. Ga.

- - - K. Simonds joins here

- - - 4-1562-2, Epworth, Fannin Co., Ga., in town.

7040.0 Tenn.-N. C. State line, enter N. C. E on U. S. 64.

7046.9 4-1562-3, Murphy, Cherokee Co., N. C.

7061.2 Murphy, N. C. at jct. U.S. 129-64-19, go NE on 19.

7070.5 Marble, N. C., going SW.

7078.1 4-1562-4, Marble, Cherokee Co., N. C.

- - - Return to Blue Ridge, Ga., leave Simonds at Epworth

7131.4 Blue Ridge Ga., go SW on U.S. 76.

7134.7 Gilmer-Fannin Co. line, enter Gilmer Co.

7142.0 4-1662-1, Maxwell, Gilmer Co., Ga.

7147.2 Ellijay, Ga.

7147.8 4-1662-2

7153.5 4-1662-3, Ellijay, Gilmer Co., Ga.

7156.9 4-1662-4, Ellijay, Gilmer Co., Ga.

7160.7 Murray-Gilmer Co. line, enter Murray Co.

7166.5 4-1662-5, Murray Co. Ga.

7170.4 4-1662-6, Chattsworth, Murray Co., Ga.

7171.9 4-1662-7, Chattsworth, Murray Co., Ga.

7174.5 Chattsworth, Ga.

7188.4 Dalton, Whitfield Co., Ga. at jct. U. S. 41, go NW on US 76.

7193.0 4-1662-8, Dalton Whitfield Co., Ga.

7193.6 Jct. U.S. 76 and St. Rte 201, go SW on Rte. 201, Rocky Face, Ga.

7200.7 4-1662-9, Rocky Face, Whitfield Co., Ga.

7202.0 Whitfield-Walker Co. line, enter Walker Co.

7205.3 Jct. St. Rte 201-St. Rte. 143, go W on Rte. 143.

7209.1 4-1662-10, Villanow, Walker Co. Ga.

7218.2 Jct. St. Rte. 143-U.S. 27, go S on U.S. 27.

7224.1 4-1662-11, Walker Co., Ga.

7226.8 Chatooga-Walker Co. line, enter Chatooga Co.
 7260.5 Jct. St. Rte. 40-U.S. 11, go W on 40; Hammondville. Ala.
 7268.3 4-1762-1, Hammondville, De Kalb, Co., Ala.
 7269.8 Jct S₊. RTe. 75-St. Rte. 40, go W on 40.
 7271.3 Jackson-De Kalb Co. line, enter SW into Jackson Co.
 7276.0 4-1761-2, Henagar, Jackson Co., Ala.
 7278.0 Jct. St. Rte. 71-St. Rte. 40, go NE St. Rte 71.
 7286.0 4-1762-3 (the only valid milage is to next point.)
 7287.0 Jct. St. Rte. 71- St. RTE. 40, go Sw on 40.
 7289.5 4-1762-4,
 7294.7 Tennessee River on St. Rte. 35: go Nw; Rte 40 ends .
 7298.4 Jct. St. Rte. 35-U.S.72, go W on 72.
 7300.4 4-1762.5, Scottsboro, Jackson Co., Ala.
 7308.7 Jct: U.S. 72-Co. Rd. 11, go N Co. 11.
 7309.3 4-1762-6, Scottsboro, Jackson Co., Ala. on E fork of Rd.
 7309.4 Return to W fork of Rd., go W Co. 11 (Old U.S.72)
 7312.9 4-1762-7; Scottsboro, Jackson Co., Ala.
 7317.1 Jct. US 72-Co. Rd. 11, Woodville, Ala.
 7322.6 Paint Rock, Ala.
 7327.9 Gurley, Ala.
 7328.2 Jct: unnumbered, surfaced road, go S on Rd.
 7328.4 4-1762-8, Gurley, Madison Co., Ala.
 7329.4 Return to US 72 at point of departure, go W.
 7342.9 Jct. US 72-US 431-231, Huntsville, Ala.
 7355.8 Madison-Limestone Co. line, enter Limestone Co.
 7366.2 Jct: US 31- US 72
 7368.8 Athens, Ala.
 7372.4 4-1762-9, Athens, Limestone Co., Ala.
 7373.7 4-1762-10, Athens, Limestone Co., Ala.
 739100 Athens, Ala. (4-18-62)

7395.9 4-1862-1, same creek as 4-1762-10; on US 72.
 7396.3 Return to US 72 from side road, go W.
 7406.8 Lauderdale- Limestone Co. line, enter Lauderdale Co.
 7407.4 4-1862-2
 7410.8 Rogersville, Ala., go N on St. RTE 207.
 7412.3 Go W on unnumbered, surfaced Rd.
 7414.3 Go N on dirt rd.
 7414.3 4-1862-3
 7414.9 4-1862-4
 7416.0 Reenter St. Rte. 207, go S Rte 207.
 7418.8 Jct. St. Rte. 207- US 72, go W. US 72.
 7424.7 Jct. US 72- St. Rte. 101, go N Rte 101.
 7432.5 4-1862-5 , Lexington, Lauderdale Co., Ala.
 7433.6 Jct. St. Rte. 101-St. Rte 64, go E Rte 64.
 7441.9 Jct. St. Rte 64-St. Rte 207, go N on 207.
 7443.6 Tenn.-Ala. State line, enter Tenn. on Tenn. Rte 11.
 7444.6 4-1862.6, Minor Hill, Giles Co., Tenn.
 7449.7 Minor Hill, Tenn.
 7452.1 4-1862-7, Giles Co., Tenn.
 7457.2 4-1862-8, Goodspring, Giles Co., Tenn.
 7462.3 Jct. St. Rte. 11- US 64, go E on 64, Pulaski, Tenn.
 7467.2 4-1862-9, Pulaski, Giles Co., Tenn.
 7476.2 Giles-Lincoln Co. line, enter Lincoln Co.
 7477.9 4-1862-10, McBurg, Lincoln Co., Tenn.
 7493.7 Fayetteville, Tenn.
 7536.2 Jct. St. Rte. 55-US 41, go NE on 55, Manchester, Tenn.
 7543.8 Go S on unnumbered, surfaced road.
 7544.0 4-1962-1
 7544.4 Return to Rte. 55, go NE on 55.

~~7544.4~~

7555.6 Smartt, Tenn.
 7560.1 Jct. St. Rte. 55-US 70S, go NE on 70S, McMinnville, Tenn
 7561.2 Jct. US 70S- St. Rte. 56, go NE 70S
 7568.9 4-1962-2, McMinnville, Coffee Co., Tenn.
 7575.6 Caney Fork, Coffee-White Co. line, enter White Co.
 7589.8 Calfkiller Riv., Sparta, Tenn, go E on US 70S.
 7603.5 White-Cumberland Co. line, enter Cumberland Co.
 7607.4 Go s on unnumbered, gravel road.
 7607.5 4-1962-3, Pleasant Hill., Cumberland Co., Tenn.
 7607.6 Return to US70S, go E.
 7610.2 4-1962-4,
 7617.3 Jct. US70S-US 70N, Crossville, Tenn., go E US 70.
 7618.8 Jct. US 70-US 127, go S. US 127.
 7627.0 4-1962-5, Crossville. Cumberland Co., Tenn, go N. on US~~127~~
 7637.6 Jct. US 127-US 70, go N 127.
 7644.6 4-1962-6, Crossville, Cumberland Co., Tenn.
 7648.8- 4-1962-7, Crossville, Cumberland Co., Tenn.
 7654.9 4-1962-8, Crossville, Cumberland Co., Tenn.
 7654.9 Clear Creek, Cumberland-Fentress Co. line, enter Fentress Co.
 7674.9 Jamestown, Fentress Co., Tenn.
 7693.3 Jct. US 127-St. R^{te} 52, go W on 52.
 7699.0 Go N unnumbered, surfaced road.
 7699.3 4-2062-1, Crab Creek, Jamestown, Fentress Co., Tenn.
 7706.0 Jct. US 127- St. R^{te} 53, go E on 52.
 7718.0 4-20/62-12, Armathwaithe, Fentress Co., Tenn.
 7721.3 Clear Fork, Fentress-Morgan Co. line.
 7721.6 Morgan-Scott Co. line, enter Morgan Co.
 7730.8 Jct. St Rte. 52-US 27, go N on 27.
 7733.0 Robbins, Scott Co. Tenn.
 7737.7 New River, Tenn.

7740.3 Jct. US 27-St. Rte 63, go E on Rte 63.
 7743.1 Huntsville, Scott Co., Tenn.
 7745.7 4-2062-3, Huntsville, Scott Co., Tenn.
 7752.0 4-2062-4,
 7755.2 Scott-Campbell Co. line, enter Campbell Co.
 7756.6 4-2062-5, Buckeye, Campbell Co., Tenn.
 7760.2 4-2062-6, Buckeye, Campbell Co., Tenn.
 7760.8 4-2062-7
 7768.5 Jct. St. Rte. 63-US 25W, Caryville, Tenn, go NE Rte. 63.
 7776.7 Jct. US 25W-St. Rte. 63, LaFollette, Tenn., go NE Rte. 63.
 7778.1 4-2062-8, LaFollette, Claiborne Co., Tenn.
 7789.1 Campbell-Claiborne Co. line, enter Claiborne Co.
 7792.3 4-2062-9, LaFollette, Claiborne Co., Tenn.
 7809.0 Jct. St. Rte. 63-US 25E, go N 25E.
 - - - Enter side road W from US25E
 7830.3 4-2162-1, Pineville, Bell Co., Ky.
 7830.6 - Return to US25E, go S.
 7833.0 Pineville, Ky.
 7834.1 Jct. US 25E- US 119, go NE US 119.
 7842.5 4-2162-2
 7845.1 4-2162-3
 7845.1 Return SW on US 119.
 7846.4 Enter dirt road going E.
 7847.6 Cross Cumberland River.
 7849.9 4-2162-4
 - - - Return to US 119, go SW.
 7863.0 Jct. US 25E-US 119, go S on 25E.
 7873.9, 1/ Middlesboro, Ky.

7882.4 Powell River

7884.5 Go NW on unnumbered surfaced road.

7884.7 4-2162-5, Tazwell, Claiborne Co., Tenn.

7884.8 Return to US 25E, go SE.

7890.3 Tazwell, Tenn.

7895.7 Jct. US 25E- St. Rte 33, go NE Rte. 33.

7900.7 4-2162-6

7905.7 Claiborne-Hancock Co. line, enter Hancock Co.

7909.1 4-2162-7, Sneedville, Hancock Co., Tenn.

7917.8 Sneedville, Tenn.

7921.9 4-2162-8,

7929.6 Kyle's Ford, jct. St. Rte. 33- St. Rte. 70, go SE Rte. 70.

7931.2 4-2162-9

7931.5 Hancock-Hawkins Co. line, enter Hawkins Co.

7932.3 4-2162-10

7941.3 Jct. St. Rte. 70-St. Rte. 94, go S. Rte. 93

End of entries in journal for trip 12 April, 1962 -
22 April, 1962.

CAT. NO.

114091 - 114242
K.B.

Bfite

11-243-114245